

a receiver that receives third information provided from the control station apparatus to the effect that, when said position detection is performed during said diversity handover, a target quality is to be changed to a level provided from the control station apparatus to enable satisfactory performance of said position detection; and

a transmit power controller that changes the target quality according to the third information and performs transmit power control of the communication terminal apparatus at the changed target quality.

9. A base station apparatus that determines a position of a communication terminal apparatus by determining a direction of said communication terminal apparatus utilizing an array antenna characteristic and by determining a distance to said communication terminal apparatus from a propagation delay, said base station apparatus comprising:

a target quality changer that raises a target quality when a position detection is performed during a handover; and

a transmit power controller that performs transmit power control of the communication terminal apparatus at the changed target quality.

10. A control apparatus that notifies the base station apparatus of claim 8 of said third information to the effect that, when the position detection is performed during said diversity handover, a target quality is to be changed to a level to enable satisfactory performance of said position detection.

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11. The control apparatus according to claim 10, wherein said target quality corresponds to an accuracy required for a service.

12. A transmit power control method comprising:  
providing, from a base station apparatus to a control station apparatus, first information to the effect that a communication terminal apparatus is performing a diversity handover and second information to the effect that a position detection is in progress;  
providing, from the control station apparatus to the communication terminal apparatus and the base station apparatus, third information to the effect that, when the position detection is performed during the diversity handover, a target quality is to be changed to a level provided from said control station apparatus to enable satisfactory performance of said position detection; and  
performing transmit power control in the communication terminal apparatus and the base station apparatus at the target quality corresponding to the third information.--